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DIELEMAN et al., Ser. No. 10,644,924

AMENDMENTS TO THE CLAIMS

- (currently amended) A process for producing articles or substrates with at least one 1. surface on which a liquid A has low adhesion at a temperature $T \ge T1$, by applying a substance B in liquid or in dissolved form to a surface S of the substrate or article in an amount which covers the surface, which comprises using a surface S which has many depressions and/or elevations, where the average distance between adjacent elevations is in the range from 0.01 to 500 µm and the average height difference between mutually adjacent elevations and depressions is in the range from 0.01 tc 500 µm, wherein the substance B is immiscible with the liquid A or soluble therein to an extent of less than 0.1 g/I (at 20°C and 1013 mbar), and the substance B has been selected from low-molecularweight and oligomeric substances B1 which are liquid at the temperature T1, and wherein the substance B has a kinematic viscosity ≤ 10000 mm²/sec (at 20°C) and the vapor pressure of the substance B at 20°C does not exceed 0.1 mbar.
- (previously presented) The process claimed in claim 1, wherein the substance B has a 2. static contact angle $\theta_B < 10^{\circ}$ (at 20°C and 1013 mbar) on the surface.
- (previously presented) The process claimed in claim 1, wherein the selection of the 3. substance B is such that it complies with the relationship of formula I:

$$\gamma_B * \cos(\theta_B) - \gamma_A * \cos(\theta_A) - \gamma_{A/B} > 0$$
 (I)

where

- is the surface tension of the liquid A γΑ
- is the static contact angle of the liquid A on the untreated surface S θ_{A}
- is the surface tension of the substance B ÝΒ

is the static contact angle of the liquid substance B on the untreated surface 5, and $\theta_{\rm B}$ is the surface tension at the boundary between liquid A and substance B. YA/B

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4. (canceled)

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- (previously presented) The process claimed in claim 1, whereir the amount of the 5. substance B applied to the surface is from 10⁻³ g/m² to 100 g/m².
- (previously presented) The process claimed in claim 1, wherein the termperature T1 is at 6. least -10°C.
- (previously presented) The process claimed in claim 1, wherein the liquid A has been 7. selected from aqueous liquids.
- (previously presented) The process claimed in claim 1, wherein the surface tension of the 8. substance B at its boundary is ≤ 50 mN/m at 20° C.
- (previously presented) The process claimed in claim 1, whereir the substance B has been 9. selected from hydrocarbons having at least 8 carbon atoms, perfluorohydrocarbons having at least 8 carbon atoms, alkanols having at least 8 carbon atoms and silicones.
- (previously presented) An article which has at least one surface which is obtained by a 10. process as claimed in claim 1.
- (previously presented) The process claimed in claim 1, whereir the substance B has been 11. selected from hydrocarbons having 8 to 20 carbon atoms, perfluorohydrocarbons having 8 to 40 carbon atoms and alkanols having at least 8 carbon atoms.
- (previously presented) The process claimed in claim 11, where n the amount of the 12. substance B applied to the surface is from 10⁻³ g/m² to 100 g/m².
- (previously presented) The process claimed in claim 11, where n the temperature T1 is at 13. least -10°C.

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- (previously presented) The process claimed in claim 11, where n the liquid A has been 14. selected from aqueous liquids.
- (new) The process claimed in claim 1, wherein the vapor pressure of the substance B at 15. 20°C does not exceed 0.01 mbar.